RAW SEQUENCE LISTING
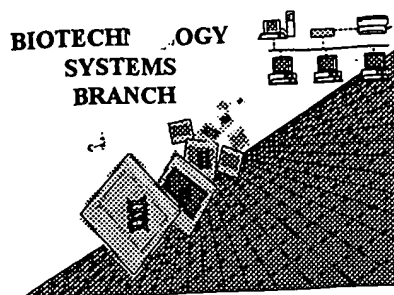# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/580,156A_

Source: _01PE_

Date Processed by STIC: _7/16/2001_

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/580,156A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 ____ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino Numbering
The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length
Sequence(s)____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences (OLD RULES)
Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ____ Invalid <213> Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ____ Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (See 1.823 of Sequence Rules)

12 ____ PatentIn 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

RAW SEQUENCE LISTING   DATE: 07/16/2001
PATENT APPLICATION: US/09/580,156A   TIME: 14:18:03

Input Set : A:\97489us1.app
Output Set: N:\CRF3\07162001\I580156A.raw

Does Not Comply
Corrected Diskette Needed

pp 4-5

```
 3 <110> APPLICANT: SANDBERG, LAWRENCE B.
 4          MITTS, THOMAS F.
 6 <120> TITLE OF INVENTION: ELASTIN PEPTIDE ANALOGS AND USES THEREOF
 8 <130> FILE REFERENCE: 97-489-US-P
10 <140> CURRENT APPLICATION NUMBER: 09/580,156A
11 <141> CURRENT FILING DATE: 2000-05-30
13 <150> PRIOR APPLICATION NUMBER: 09/039,308
14 <151> PRIOR FILING DATE: 1998-03-13
16 <150> PRIOR APPLICATION NUMBER: PCT/US99/05496
17 <151> PRIOR FILING DATE: 1999-03-12
19 <160> NUMBER OF SEQ ID NOS: 54
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 3
25 <212> TYPE: PRT
26 <213> ORGANISM: mammalian
28 <400> SEQUENCE: 1
29 Ala Val Gly
30    1
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 4
35 <212> TYPE: PRT
36 <213> ORGANISM: mammalian
38 <400> SEQUENCE: 2
39 Val Gly Ala Gly
40    1
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 3
45 <212> TYPE: PRT
46 <213> ORGANISM: mammalian
48 <400> SEQUENCE: 3
49 Ile Gly Gly
50    1
53 <210> SEQ ID NO: 4
54 <211> LENGTH: 2
55 <212> TYPE: PRT
56 <213> ORGANISM: mammalian
58 <400> SEQUENCE: 4
59 Leu Gly
60    1
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 4
65 <212> TYPE: PRT
66 <213> ORGANISM: mammalian
68 <400> SEQUENCE: 5
69 Ile Gly Ala Gly
70    1
```

```
73 <210> SEQ ID NO: 6
74 <211> LENGTH: 3
75 <212> TYPE: PRT
76 <213> ORGANISM: mammalian
78 <400> SEQUENCE: 6
79 Leu Gly Gly
80    1
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 4
85 <212> TYPE: PRT
86 <213> ORGANISM: mammalian
88 <400> SEQUENCE: 7
89 Val Ala Pro Gly
90    1
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 4
95 <212> TYPE: PRT
96 <213> ORGANISM: mammalian
98 <400> SEQUENCE: 8
99 Leu Gly Pro Gly
100    1
103 <210> SEQ ID NO: 9
104 <211> LENGTH: 4
105 <212> TYPE: PRT
106 <213> ORGANISM: mammalian
108 <400> SEQUENCE: 9
109 Leu Gly Ala Gly
110    1
113 <210> SEQ ID NO: 10
114 <211> LENGTH: 4
115 <212> TYPE: PRT
116 <213> ORGANISM: mammalian
118 <400> SEQUENCE: 10
119 Val Gly Pro Gly
120    1
123 <210> SEQ ID NO: 11
124 <211> LENGTH: 4
125 <212> TYPE: PRT
126 <213> ORGANISM: mammalian
128 <400> SEQUENCE: 11
129 Phe Gly Pro Gly
130    1
133 <210> SEQ ID NO: 12
134 <211> LENGTH: 4
135 <212> TYPE: PRT
136 <213> ORGANISM: mammalian
138 <400> SEQUENCE: 12
139 Val Gly Pro Gln
140    1
```

```
143 <210> SEQ ID NO: 13
144 <211> LENGTH: 3
145 <212> TYPE: PRT
146 <213> ORGANISM: mammalian
148 <400> SEQUENCE: 13
149 Leu Gly Ala
150   1
153 <210> SEQ ID NO: 14
154 <211> LENGTH: 4
155 <212> TYPE: PRT
156 <213> ORGANISM: mammalian
158 <400> SEQUENCE: 14
159 Val Gly Pro Ala
160   1
163 <210> SEQ ID NO: 15
164 <211> LENGTH: 4
165 <212> TYPE: PRT
166 <213> ORGANISM: mammalian
168 <400> SEQUENCE: 15
169 Val Val Pro Gly
170   1
173 <210> SEQ ID NO: 16
174 <211> LENGTH: 4
175 <212> TYPE: PRT
176 <213> ORGANISM: mammalian
178 <400> SEQUENCE: 16
179 Ala Val Pro Gly
180   1
183 <210> SEQ ID NO: 17
184 <211> LENGTH: 4
185 <212> TYPE: PRT
186 <213> ORGANISM: mammalian
188 <400> SEQUENCE: 17
189 Val Val Pro Gln
190   1
193 <210> SEQ ID NO: 18
194 <211> LENGTH: 6
195 <212> TYPE: PRT
196 <213> ORGANISM: mammalian
198 <400> SEQUENCE: 18
199 Val Ala Ala Arg Pro Gly
200   1               5
203 <210> SEQ ID NO: 19
204 <211> LENGTH: 7
205 <212> TYPE: PRT
206 <213> ORGANISM: mammalian
208 <400> SEQUENCE: 19
209 Leu Gly Ala Gly Gly Ala Gly
210   1               5
```

Input Set : **A:\97489us1.app**
Output Set: **N:\CRF3\07162001\I580156A.raw**

```
213 <210> SEQ ID NO: 20
214 <211> LENGTH: 4
215 <212> TYPE: PRT
216 <213> ORGANISM: mammalian
218 <400> SEQUENCE: 20
219 Ala Ile Pro Gly
220    1
223 <210> SEQ ID NO: 21
224 <211> LENGTH: 5
225 <212> TYPE: PRT
226 <213> ORGANISM: mammalian
228 <400> SEQUENCE: 21
229 Leu Gly Pro Gly Gly
230    1                5
233 <210> SEQ ID NO: 22
234 <211> LENGTH: 5
235 <212> TYPE: PRT
236 <213> ORGANISM: mammalian
238 <400> SEQUENCE: 22
239 Ala Ala Ala Gln Ala
240    1                5
243 <210> SEQ ID NO: 23
244 <211> LENGTH: 5
245 <212> TYPE: PRT
246 <213> ORGANISM: mammalian
248 <220> FEATURE:
249 <221> NAME/KEY: MOD_RES
250 <222> LOCATION: (4)
252 <400> SEQUENCE: 23
253 Val Gly Val Xaa Gly
254    1                5
257 <210> SEQ ID NO: 24
258 <211> LENGTH: 5
259 <212> TYPE: PRT
260 <213> ORGANISM: mammalian
262 <400> SEQUENCE: 24
263 Val Tyr Pro Gly Gly
264    1                5
267 <210> SEQ ID NO: 25
268 <211> LENGTH: 6
269 <212> TYPE: PRT
270 <213> ORGANISM: mammalian
272 <400> SEQUENCE: 25
273 Ile Gly Gly Val Gly Gly
274    1                5
277 <210> SEQ ID NO: 26
278 <211> LENGTH: 6
279 <212> TYPE: PRT
280 <213> ORGANISM: mammalian
```

W--> *(handwritten annotation pointing to line 253)*

Handwritten annotations:

This is not an explanation of what Xaa represents

Per 1.823 of new Sequence Rules, <221>, <222>, and <223> are mandatory whenever "n" or "Xaa" is present.

(see item 9 on Error Summary Sheet)

<221> <222> <223> → <223>

Input Set : A:\97489us1.app
Output Set: N:\CRF3\07162001\I580156A.raw

```
282 <400> SEQUENCE: 26
283 Val Ala Pro Gly Val Gly
284   1                 5
287 <210> SEQ ID NO: 27
288 <211> LENGTH: 5
289 <212> TYPE: PRT
290 <213> ORGANISM: mammalian
292 <400> SEQUENCE: 27
293 Leu Gly Val Gly Gly
294   1                 5
297 <210> SEQ ID NO: 28
298 <211> LENGTH: 4
299 <212> TYPE: PRT
300 <213> ORGANISM: mammalian
302 <400> SEQUENCE: 28
303 Leu Val Pro Gly
304   1
307 <210> SEQ ID NO: 29
308 <211> LENGTH: 5
309 <212> TYPE: PRT
310 <213> ORGANISM: mammalian
312 <400> SEQUENCE: 29
313 Phe Arg Ala Ala Ala
314   1                 5
317 <210> SEQ ID NO: 30
318 <211> LENGTH: 6
319 <212> TYPE: PRT
320 <213> ORGANISM: mammalian
322 <400> SEQUENCE: 30
323 Val Gly Gly Val Pro Gly
324   1                 5
327 <210> SEQ ID NO: 31
328 <211> LENGTH: 5
329 <212> TYPE: PRT
330 <213> ORGANISM: mammalian
332 <400> SEQUENCE: 31
333 Phe Gly Pro Gly Gly
334   1                 5
337 <210> SEQ ID NO: 32
338 <211> LENGTH: 5
339 <212> TYPE: PRT
340 <213> ORGANISM: mammalian
342 <400> SEQUENCE: 32
343 Val Gly Val Pro Gly
344   1                 5
347 <210> SEQ ID NO: 33
348 <211> LENGTH: 6
349 <212> TYPE: PRT
350 <213> ORGANISM: mammalian
```

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/580,156A**

DATE: 07/16/2001
TIME: 14:18:04

Input Set : **A:\97489us1.app**
Output Set: **N:\CRF3\07162001\I580156A.raw**

```
L:253 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:23
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:367 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:34
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
```